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## Dynamics of Soft Matter

By Sakai, Victoria García / Alba-Simionesco, Christiane

Condition: New. Publisher/Verlag: Springer, Berlin | Neutron Applications | Dynamics of Soft Matter: Neutron Applications provides an overview of neutron scattering techniques that measure temporal and spatial correlations simultaneously, at the microscopic and/or mesoscopic scale. These techniques offer answers to new questions arising at the interface of physics, chemistry, and biology. Knowledge of the dynamics at these levels is crucial to understanding the soft matter field, which includes colloids, polymers, membranes, biological macromolecules, foams, emulsions towards biological & biomimetic systems, and phenomena involving wetting, friction, adhesion, or microfluidics. Emphasizing the complementarities of scattering techniques with other spectroscopic ones, this volume also highlights the potential gain in combining techniques such as rheology, NMR, light scattering, dielectric spectroscopy, as well as synchrotron radiation experiments. Key areas covered include polymer science, biological materials, complex fluids and surface science. | Experimental Techniques for the Study of Dynamics in Soft Materials.- Computational Tools to Understand Inelastic and Quasielastic Neutron Scattering Data.- Basic Modes of Motion in Polymers.- Complex Polymers.- Solid Polymer Electrolytes.- Future Perspectives: Moving to Longer Length and Time Scales, from Polymers to Biological Macromolecules.- Structure and Dynamics of Biological Systems: Integration of Neutron Scattering with Computer Simulations.- Protein Dynamics and Function.- Biomolecules and...



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